SITE	DATE	AREA	SQUARE	PAGE
SPHINX	16/IX/80	NW		1 of 10

Feature No.	Coordinates:	Levels	
"PASSAGE" NW c1		Top:	Bottom:

DIMENSIONS

~~Diameter~~: Height Lower Part	Width: At entrance shaft 1.30 m. At rubble end 1.07	Length: Lower Part to end at rubble bottom ≈ 3.20	Depth: to Rubble Bottom from floor level: ≈ 4.50 m.

Locus	Mat.	Color	Hard.	Consis.	Pottery	Inclusions	
○					T	Lm / Gr / Do	Gp / Char
					D	Ba / Al / Other	
○					T	Lm / Gr / Do	Gp / Char
					D	Ba / Al / Other	
○					T	Lm / Gr / Do	Gp / Char
					D	Ba / Al / Other	
○					T	Lm / Gr / Do	Gp / Char
					D	Ba / Al / Other	
○					T	Lm / Gr / Do	Gp / Char
					D	Ba / Al / Other	

PHOTOGRAPH	Color: Roll/	No./	B&W: Roll/	No./

DRAWN	Area Plan:	Feature Plan:	Sections:

REMARKS; INTERPRETATION: Began in morning to remove one of small brick-sized blocks in area just before protrubance of tail where the stonework from floor level up is sealed w/ modern cement and where Mohammed Abd al Mawgud indicated he had seen a shaft w/ water in days of Baraize's work on Sphinx. Abd al Laafi took over job of chiseling out cement and limestone chips from the bonding of one small block at floor level. — without damaging the block itself. At 10:15 he called to have me look. He had removed the one block to reveal the packed cement-limestone chip fill behind. In the lower left corner of this fill he had made a triangular shaped hole 6 x 9 cm. Looking in w/ the flashlight it was clear there was a very large vertically descending shaft or fissure more than a

NWc1 16/IX/80 meter wide and at least 2-3 ms. deep (yesterday old Abu Bakr, who had worked as a carry boy under Baraize said it was a natural fissure that descended 12 m. to water level in Baraize's time. He claimed Baraize brought a 66 horsepower pump to remove the water to no avail). The bedrock floor drops off to this feature almost immediately under the small brick-sized stone cover. I wrote a note to Zahi at Inspectorate informing him of these results. About same time Inspector Hassan, new at Inspectorate as of yesterday, showed up. He said Zahi and Ismaiin had gone to Abasiyya headquarters and would be back at 1:00 PM. I gave him the note to give to Zahi.

12:00 Laafi has removed enough stones to show this is an artificial shaft, round at top, descending at a rough slope vertically then turning to run to N-NE. There are crude tool marks from its cutting. In Baraize time long bridging slabs were laid N-S across the opening. We must move enough of these to squeeze down into the shaft — probably only the first such slab. For this several more smaller slabs (brick-sized cover) are being taken off.

2:00 – 4:00 Scaffolding borrowed from A.O. work pit pec. on N side set up over shaft area. Looking in, there appears to be an extension of the passage in opposite side leading up into the body (core body)

17/IX/80. We covered the scaffold frame with mats to shield view from up on causeway to South and upper ledge to W. Laafi continues moving small block covering to be able to move first bridging slab.

11:00 – 2:00. Jim and Sue Allen came out in the morning to look at the rump shaft. Abd al Laafi was still working on chipping out cement to remove primarily the long bridging block across the opening. We also toured about the Valley Temple discussing ideas about its building phases. At 11:00 Allens left, Laafi and I continued to work on opening the passage. By 12:30 Ismaiin and new Inspector Hassan came down. Ismaiin had his brother and 2 other guests come look at the shaft. He said Zahi had gone out to do more business. He was taking a week's vacation (Ismaiin) so Hassan would be our inspector for this week. They all left after half an hour. By 1:30 we had enough cement bonding taken out of seam of bridging block to pry it loose w/ the huge crow-bar. I entered the passage. Looking up, into the extension of it E-ward and upward, I could see the exposed backs at successive levels of Phase I large addition blocks. The bedrock profile, on either side of what was once a kind of trench cut into the bedrock rump — on either side, gives rough contour of rump of statue but doesn't appear finished off. Descended first the roughly sloping downward part to N-NE. This ends in a narrow hole, now filled w/ rubble. While the cutting is in all respects rough and irregular, there are tool marks on the sides of the passage and, at least on N side, foot hold-like cuttings in bedrock. I next climbed up the upward passage. There was the characteristic limestone chip, sand packing between spaces in restoration blocks and between them and bedrock. These slabs, in their layers, progressively project inward to core, to abutt to core. Except those covering passage which "hang out" resting only on the blocks below them. The top of this passage, some estimated 5 ms. above floor level is covered w/ overhanging blocks of Phase I. On bottoms of those hanging over passage is packed limestone chips, clay-like sand w/ carbon flecks as though they had once been bonded to lower blocks — disturbed by passage one wonders? Or was passage there before Phase I and filled at that time by blocks which Baraize 1926 (or anytime after Phase I) took out? Suggestive is fact that the "bridging" block bonded w/ mod. cement which we removed actually spliced off of bottom-on floor — Phase II block. So that lower entrance hole at floor level also covered by Phase I.
CANCEL LAST OBSERVATION: On basis of closer inspection the 2 blocks behind the bridging block just moved are mod-1926 cemented all around. Immediately above them first Phase I block picks up.

GS 80 SPHINX NW 18/IX/80
Fcl Rump Passage

MEASUREMENTS (very approximate) taken yesterday at end of day after feature photoed in color and BW: Shaft-passage has 2 main parts, upper following underside of Phase I Masonry and making a kind of trench in bedrock curve of rump to terminate in a narrow niche; and lower part running down at steep angle to N-NE to terminate in rubble fill, possibly indications of a continuance down and in to E-SE.

LOWER PART : WIDTH : At top entrance pit 1.30 m.
At bottom (rubble filled) 1.07 m.

LENGTH SW-NE 3.20

DEPTH (to rubble fill) 4.50

UPPER PART HEIGTH (from apprx. outside floor level) 3.50
to top of niche-blocks)

WIDTH Lower end of passage 1.00 (upper part)
Just before niche at top 1.80

width of Niche: 1.00 m.

Heigth of upper niche (to sand on floor of it)
1.80 m.

FILL The total feature will be given 3 CHAMBER designations
CHAMBER 1 The niche at top of upper passage
CHAMBER 2 The Shelf-shaft leading up to niche of locus 1
CHAMBER 3 The entrance shaft inside floor opening and minor shelf giving way to pit like end of lower part.
CHAMBER 4 Pit-like End of Lower Part w/ rubble fill

CHAMBER 1 — FILL

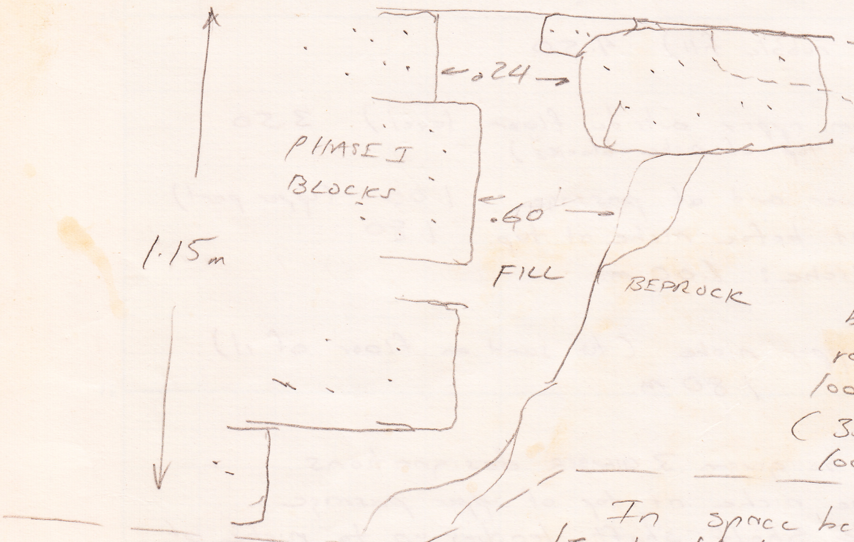
1. On underside of Phase I blocks enclosing niche from top. This is a thick layer adhering to underside(s) of phase I blocks .30-.35 m. thick. Matrix is a sandy mortar, very granular, looks very much like mod. cement-sand mix. So much so I'm wondering if it is a mod. (1926?) application. But hard to see how they could have applied this thick layer to undersides of blocks — or why, since there are no blocks or packing supporting it. It looks much like the mixture filling wide gap between Phase II blocks and bedrock core on upper rump ledge. This thick application has many carbon spots (small frags), tan clay frags (small spots) and limestone frags embedded. Few of largest limestone frags up to 40 cm in length. This whole layer runs over the bedrock cutting of upper end and sides of niche

(OVER)

Except for south side where space between thick fill layer and bedrock cutting opens to view of Phase I blocks. At S front corner of niche area this thick fill layer rests on irregular limestone piece which inturn rests on a corner of protruding Phase I in situ block. At opposite front corner it abutts to, is packed around a Phase I block (large block appry. 60 cm long x 35 thick) which rests on bedrock cutting. Along W (front-ward) edge of this packed fill it hangs free (attached to blocks above it of course) but does not articulate w/ inside faces of Phase I blocks stepped in. This could be designated feature a1. [ch.1.a1]

2. FILL BETWEEN PHASE I BLOCKS, BEDROCK CORE

a. N SIDE (left facing end of niche): At upper front corner between Phase I stones and face of bedrock (original face—not niche cutting) a space measures



This space is filled w/ clean quartz sand—packed w/ concentrated limestone chips (sharp) and frags. Few small grey mud spots noted. Some of this fill is rather loose.

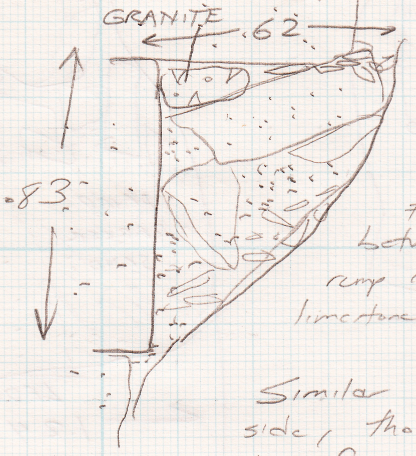
Sitting on ledge within shaft proper, same side, and tucked in between it and mortar application roofing niche are 2 limestone frags—loose which look like large chips (35 x 9 cm—tightly wedged in; 38 x 14 cm loose—ready to fall).

In space between bedrock cutting line (does it level off to a ledge at upper back end and sides of niche?) and Phase I blocks and mortar application on roof there are dumped large frags of limestone—some loose w/ loose sand spill. One of these frags has distinctive tool marks—at least 1 other had been squared at one end. This space opens .20–.30 m. and slopes inward, upward (w/ fill) .60–.70 m. Blocks of fill (packing) range 18-35-45 cm in length, width.

3. FLOOR DEPOSIT Consists of a loose fine sand w/ few limestone frags (small). Judging from bedrock bottom of niche showing at threshold, there may be 50 cm of this sand on bottom of niche. Showing at threshold, partly under the loose sand are several large pieces of limestone. Largest, at S side of threshold measures 32 cm * wide x 15 cm thick and is squared. Sand may have been found like this in 1926 and not cleared. It looks clean—no discernable mud inclusions. On other hand it could have fallen from fill in spaces between Phase I blocks since 1926. The squared limestone block at the threshold seems solidly in place. Could it be a remnant of packing block fill of the passage? Slab below it (34 cm long) also cut straight on one face. The others are irregular.

CHAMBER 2 : FILL.

1. Recess between Phase I Blocks and Bedrock Face:
A large triangular space on N side measures:



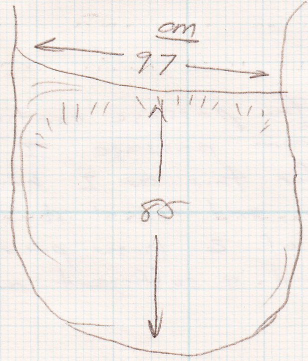
Contains a long packing slab, concentrated limestone chips, and a large fragment of red granite. (13 x 6 cm)

~~B~~ Below this on N side space between Phase I blocks and face of bedrock ramp is much smaller, still filled w/ sand, limestone frags.

Similar situation in ~~#~~ smaller spaces on S side, though here there are large clumps of mortar fallen from, adhering to large blocks of Phase I.

The backs and undersides of Phase I blocks have adherances of sand, mortar, limestone chips here and there indicating they had once been joined to surfaces under, behind (cut away bedrock or packing to bedrock — cut away when passage formed, or packing, masonry, fill of passage existing before they were placed?).

2. Fill on Ledge at bottom of Ch. 2. Ledge measures.



Fill is loose sand w/ a pile of limestone chips and frags at S side. There was loose sand and the limestone frags and chips when I first entered yesterday. But some has fallen from the several times Jim and I have been up the passage since then. There are small carbon particles, small pieces in the sand.

CHAMBER 3 FILL

Occurs at ledge-like bottom of Ch. 3 just before it drops down into Chamber 4. Again, there is here the clean sand which has been pushed down into this spot all way from Chs. 1-2 since our comings and goings in last 2 days. But fill found in this place when first entered contrasts as a damp, darker sand w/ limestone fragments. 2 of these are worked stibs, no doubt of outer Cp mod replaced and/or "Graeco Roman" Phase III, one notched: 20 x 13 x 7-8 cm; other more irregular 6 x 8 x 27.

The ledge forming bottom of Chamber 3:

(OVER)

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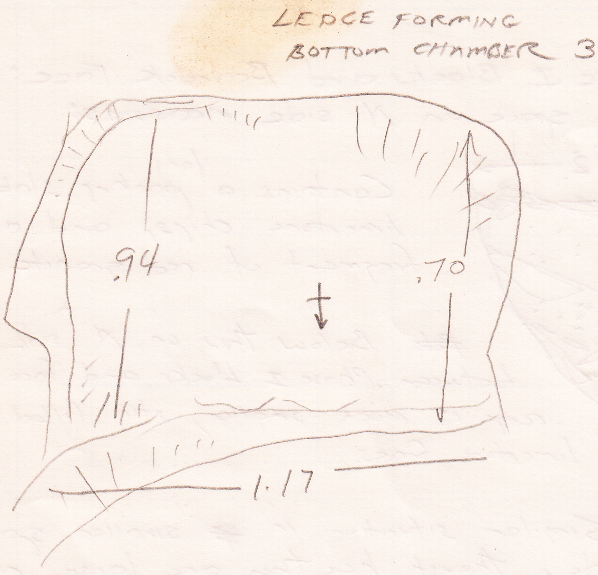

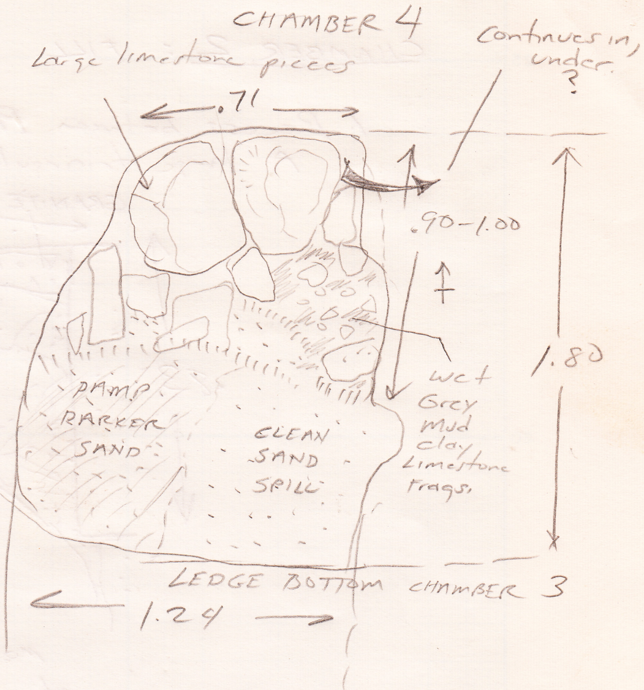

CHAMBER 4 FILL On east side, upper part (S) there is the clean sand that has spilled down from Chamber 1 to 2 to 3, around corner and down. Under, beside this is damp darker sand w/ limestone frags. This pile slopes down to limestone debris at bottom. There are 2 large irregular rough hewn limestone pieces (19 x 40 x 41 cm; 32 x 35 x 35 cm), large chips, and 3 or more small worked limestone pieces which look like the stones used in last phase and to Baraize.

22/IX/80

As yesterday cleaning floor area outside the passage continues to provide a clean zone for dumping deposits taken from passage. I will not clean the entirety of the NW corner of sanctuary for this as I had wanted because Zahi seems anxious we finish in the passage and reseal it. And we should get on w/ it before it is noised about. One of 2 larger piles of stone, sand, mud. debris outside against back ledge moved and a sufficient area of floor has been cleared to begin inside.

GS 80. SPHINX, NW
Fcl RUMP PASSAGE
CHAMBER 1, Locus 1: LOOSE SAND.

22/IX/80
Sifting brings up numerous carbon pieces (small frags), small ceramic particles, flakes, 2 small snail shells. Stone material is fine to med. limestone.

CEMENT There looks to be a large frag. and smaller pieces of mod cement (??) from the deposit. This looks very much like the 30cm thick application to underside of Phase I blocks roofing the niche. Still hard to see why they would apply a layer of cement in 1926 to the underside of those roofing slabs when nothing supporting them. Or did Baraize have a support made that was later (Salim Hassan?) taken down? Does this mean that the sand also deposited during work of Baraize. (to mix for cement?).

– In fine cleaning the niche I found bottom is coated w/ layer of buff-white gypsum passing to and under limestone pieces at threshold – bottom one of which is thinly mortared into place on bottom. This gypsum also seems to partly fill faults on N and S back corners. One of the larger limestone frags in the fill tucked behind and under the larger limestone pieces at threshold is blackened as though burned. Also noted that ◠ crude notches (footholds?) seem to continue in bedrock side of niche – S side – up to termination of niche at "roofing" Phase I blocks. Does this indicate the channel was cut before Phase I masonry as footholds would not be necessary only a few cms. down from already existing "roof" of masonry but would be used if channel and cutting activity continued on bedrock higher up before masonry of Phase I laid in.

CHAMBER 2, LOCUS 2: LOOSE SAND
22/IX/80: Hamed, Sayed, Abd el Gader cleared the loose sand on the ledge ("floor") bottom of Chamber 2. This is the same material as Locus 1, Chamber 1 above. The sifting brought up more carbon pieces, some small sherd pieces, some ancient mortar pieces, again what looks like mod cement pieces, some tan clay pieces. and 1 small chip of bone. The surface of the ledge, like that of Chamber 1 ledge, looks like it has a thin layer of offwhite gypsum. But the coloration (white) matches where the sand covered the bedrock causing me to wonder if this is not merely a change of surface to moist soft gypsum-like thin layer due to chemical reaction w/ the sand. Perhaps same is true for supposed gypsum layer on ledge of Chamber 1.

The one piece of cut limestone (9×12×25) – sim to late to mod. small restoration blocks brought up.

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CHAMBER 3 LOCUS 1 23/IX/80

The ledge bottom of chamber 3 cleared of loose sand. This is darker than that from Chs. 1-2. One cut limestone piece brought up. (8X12X32) - sim. to late-mod. restoration blocks. Stone material after sifting - fine to med. size limestone frags. Sherd, 1 alabaster, 1 granite (chips) carbon brought up. Also an obviously mod base frag of pottery water jar, mod foil (tin foil). As this all obviously modern debris, sifting operation abandoned. Work begins clearing Chamber 4. (Bottom of Ch. 3 - ledge surface - also shows gipsum like layer of softened-whitened bedrock surface).

CHAMBER 4 LOCUS ① 23/IX/80

9:30 AM - began clearing Locus 1 chamber 4: dark damp sand w/ limestone frags and mixed w/ clean sand mostly on S side spilled down from Chs. 1-2-3. This taken down to surface of Locus 2: More concentrated Rubble of limestone frags (large) - several of which are cut. Locus 2, however, also very likely mod. refill as it contains many grey cement frags. Clearing stops temporarily here so that the lower part of passage may be planned and sectioned before continuing w/ clearence of Locus 2.

CHAMBER 4 LOCUS ② 7/X/80.

After most of plans, sections and elevations of passage drawn, excavation of bottom Ch. 4 continues. The two large stones at SE end of fill taken out and ②: concentrated limestone rubble removed. This sloped up to NW end against ledge and 2 cleared level w/ surface of 3 showing under large stones at opposite end. ③ is a grey slushy clay - very wet. ③ and ② now show on leveled fill as contiguous. Both ③ and ② contain limestone frags - some cut small slabs like mod-phase III casing.

1. 24 x 37 x 40 - Large stone removed 4 faces show straight cutting - then broken
2. 30 x 43 x 32 - Large stone removed - irregular rough hewn

Stone 1 shows tool marks on cut straight faces. Both 1 & 2 look like large packing blocks from between Bedrock core, Phase I masonry. Both show mod. cement clinging to side. Smaller rectangular cut slabs range in size

10 x 11 x 40; 10 x 16 x 33, 10 x 11 x 33; 10 x 10 x 27; 7 x 20 x 22

They look much like packing blocks in range of finish, size, from R17 a3 in E area, chapel.

On planning level ②-③, it was noted that ③ - dark clay, is only a lense about 10-15 cm thick and sand passes under it. The sand w/ limestone from this point will be designated locus ④

CHAMBER 4 LOCUS ③ 8/X/80

Morning began clearing ③ - dark grey clay. This turns out to descend whereas it is the sand ② that phases out. So after ③ taken down ≈40 cm, the remainder of ② (not ④ as yesterday's thought) removed. These dumped in separated piles against rear ledge.

GS 80 SPHINX NW
Fcl RUMP PASSAGE

7.42
1.47
5.95

CHAMBER 4, LOCUS ③: DARK DAMP CLAY. 8/X/80
5 pieces pottery come up from ③, 1 looks like amphorae (Roman) neck, Roman amphorae conical base; 1 like O.K. "bread mold" base, 2 ND. Also 2 pieces granite, 1 looks like crude corner piece. At same time, a piece of black rubber – prob. from excavation basket came up, corroded iron fragments including 2 pipe-like pieces and 2 large pieces of bowl-bottomed shaped grey mod. cement. Also about 33 rectangular cut slabs of limestone ranging 11 x 13 x 30; 7 x 10 x 26; 6 x 18 x 29; 10 x 11 x 20; etc. Also: irregular limestone frags. Seems conclusive this is refill from time of Baraize-Hassan.

7.42
1.12
6.30

10.76
2.70
13.46
.68
14.15

ELEVATION AT LEVELED CLAY AT POINT WHERE ② SAND TAKEN OFF TO FILL ENTIRELY OF ③ ACROSS SHAFT: 5.95 (LOWEST DATUM LINE) 7.38
DEPTH BELOW FLOOR 4.87m. ⟵ ⟶ READ WRONG

10.76
2.70
8.06
.68
7.38

8/X/80 11:00–2:00 LOCUS ④
Clearing continued in ③. Began to get more sandy w/ grey wet material that looks like modern cement. More shard, chert pieces, shoe heel, paper comes up. Also more limestone slabs roughly rectangular cut. About 1:45 Abd al Laafi, doing clearing at bottom, called for me. He had found 3 bone pieces that looked like human leg bones. Also more pottery frags, including an amphorae conical base. These bone pieces grouped toward N side of hole. Just above them, already taken up, was a crude half cylinder shaped limestone piece w/ rectangular or square holes coming in from either end but not meeting. With this the top of a glass bottle was taken up. (Limestone piece 17 x 21 x 23 cm; notches 6 x 6 x 6; 5 x 6 x 8 – one notch stained rust-colored inside as though had been socket for iron piece?). Surface now exposed compacted limestone debris w/ many rectangular cut small slabs as before. Water now showing at SE end, NW end, S side. The debris in a grey sandy slurry – w/ very dark grey cement-like portions. Just under the bones (Laafi had moved them slightly and put them back where he says he found them) was mod. looking tin foil. Toward middle of shaft lies a red baked brick frag w/ mod looking glass embedded in it and protruding. Also another conical bottom of Roman looking amphorae. Another larger red baked brick toward back N corner of shaft. Tucked in against S side of shaft is a oval smooth black coated chert piece, what looks like it could be a dom palm nut (?) and black wet spot of carbonated fibrous material.
It appears this all still refill from mod. times. But curious to have human bone pieces. Were these thrown back in w/ Baraize refill? Or were they just where Baraize stopped clearing the passage (at water table) and then got mixed w/ mod. refill? This fill down designated LOCUS ④

10.82
3.40
7.42
1.47
5.95

10.82

3.40
1.47
5.77

3.40
1.47
4.87

10.82
4.87
5.95

GENERAL ELEVATION: 6:30 Back end. to water apprx.
DEPTH BELOW FLOOR SANCTUARY 4.52.

10.82
10.76

9/X/80 PLANNED, SECTIONED surface ④. Picked out bone, red brick, dom palm nut. The "carbonized black fibrous material" turned out to be plastic cellophane. A bit of tin foil adhered to debris on one of the bones. After taking up the small cut limestone slabs, the fill got very mucky black to dark grey w/ slight odor of sewage. 2 rotted shoes pulled out of this muck as well as cement pieces. The man cleared down about 30 cm., now working in sloppy

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water. grey sandy material. This is likely mod cement (dries like cement). By 2:00 work could not proceed without buckets as this all in water solution. At 3:00 I and Rufus climbed down. I scooped out fill w/ hand along S side. Could feel - follow this down sloping and leveling like bottom to approximately short of center of hole. Pounded a heavy 2m. crowbar down and it seems to hit solid bottom at all points.

CHAMBER 4, Locus (4) 12/X/80

Clearing continued w/ buckets from 11:00 AM, removing wet watery sloppy grey cement. By 2:00 The bottom of the shaft was reached 5m. down from floor level. The water had been cleared completely only to fill up again within an hour or two. At the very bottom a large dolerite pounding ball was recovered. This, in fill still characteristic of mod cement-sand in solution.